

**PATENT**  
Attorney Docket No. 213257

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Kovesdi et al.

Art Unit: Not Assigned

Application No.: Not Assigned  
(Continuation of U.S. Patent App. No. 08/258,416)

Examiner: Not Assigned

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For: COMPLEMENTARY ADENOVIRAL  
VECTOR SYSTEMS AND CELL LINES

**PENDING CLAIMS AFTER PRELIMINARY AMENDMENT**

36. A recombinant cell line for the production of a defective adenovirus, comprising, inserted into its genome, part of an adenovirus E4 region comprising an ORF6 reading frame under the control of a functional promoter, wherein the inserted E4 region does not contain a functional ORF4 reading frame.

37. The cell line according to claim 36, wherein the E4 region is derived from a group C human adenovirus genome.

38. The cell line according to claim 37, wherein the E4 region is derived from the genome of an Ad2 or Ad5 adenovirus.

39. The cell line according to claim 36, wherein the promoter is an inducible promoter.

40. The cell line according to claim 36, which transcomplements for the E1 region.

41. The cell line according to claim 40, which is derived from cell line 293.

42. The cell line according to claim 36, wherein the part of the E4 region does not contain ORF4.

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43. The cell line according to claim 42, wherein the part of the E4 region does not contain ORF1-ORF4.

44. A plasmid comprising part of an E4 region of an adenovirus genome carrying a reading frame ORF6 under the control of an inducible promoter.

45. A method for the production of a recombinant adenovirus which is defective at least for the E4 region, comprising infecting the cell line of claim 36 with the E4 defective adenovirus and harvesting the adenovirus.

46. The method according to claim 45, wherein the cell line cells are transformed with one or more plasmids providing the various regions of the genome of the defective recombinant adenovirus.

47. The method according to claim 46, wherein the recombinant adenovirus is defective for E1 and E4 regions.

48. A defective recombinant adenovirus  $\Delta$ E1,  $\Delta$ E4, wherein all or part of the E1 region and the whole of the E4 region is deleted.